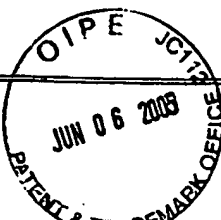


FORM PTO-1449  
(Rev. 2-32)



U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No.

00-1123-D

Serial No.

09/930,352

**TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use several sheets if necessary)

**Applicant:**

Cunningham, et al.

**Filing Date:**

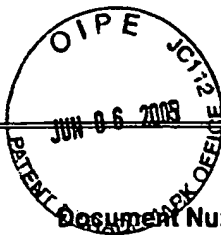
August 15, 2001

**Group:**

1641

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Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
<i>Amplifier</i>	*	US 2003/0148542	8-7-03	Pawlak			11-27-02
<i>Duplicate</i>	*	US 2002/0174045	11-21-02	Perraut			5-17-02
<i>Amplifier</i>	*	4,815,843	3/28/89	Tiefenthaler, et al.	356	128	5/29/86
	*	4,952,056	8/28/90	Tiefenthaler	356	73.1	5/5/89
	*	5,071,248	12/10/91	Tiefenthaler, et al.	356	128	11/14/88
	*	3,810,688	5/14/74	Ballman, et al.	350	96	5/21/73
	*	3,856,604	12/24/74	Hershler, et al.	156	361	9/15/72
	*	4,050,895	9/27/77	Hardy, et al.	436	527	9/17/76
	*	4,344,438	8/17/82	Schultz	128	633	4/28/80
	*	4,560,246	12/24/85	Cramp, et al.	385	12	8/9/82
	*	4,650,329	3/17/87	Barrett, et al.	356	481	11/29/84
	*	4,652,290	3/24/87	Cho et al.	65	31	7/5/83
	*	4,701,008	10/20/87	Richard et al.	385	132	8/10/84
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	*	4,818,710	4/4/89	Sutherland, et al.	436	527	12/6/85
	*	4,857,273	8/15/89	Stewart, et al.	436	82	4/4/86
	*	RE33,064	9/19/89	Carter	436	34	10/9/87
	*	4,608,344	8/26/86	Carter, et al.	436	34	5/18/83
	*	4,6218,194	4/17/01	Lyndin et al.	436	518	10/12/99



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PATENT DOCUMENT OFFICE JUN 08 1981									Date	Country	Class	Subclass	Translation	
Document Number													Yes	No
1.	8	1	0	0	9	1	2	4/2/81	PCT					
2.	0	0	7	5	3	5	3	3/30/83	PCT					
3.	6	7	0	5	2	1	A5	6/15/89	CH					
4.	6	6	9	0	5	0	A5	2/15/89	CH					
5.	8	6	0	7	1	4	9	12/4/86	PCT					

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Duplicate	6.	Neuschafer et al., <u>Evanescent resonator chips: a universal platform with superior sensitivity for fluorescence-based microarrays.</u> <i>Biosensors &amp; Bioelectronics</i> , 18 (2003) 489-497.
Duplicate	7.	Budach et al., <u>Generation of transducers for fluorescence-based microarrays with enhanced sensitivity and their application for gene expression profiling.</u> <i>Analytical Chemistry</i> , 2003 Jun 1;75(11):2571-7.
NY	8.	W. Lukosz and K. Tiefenthaler, "Embossing technique for fabricating integrated optical components in hard inorganic waveguiding materials," <i>Optics Letters</i> , vol. 8, pp. 537-539 (1983)
	9.	K. Tiefenthaler and W. Lukosz, "Integrated optical switches and gas sensors," <i>Optics Letters</i> , vol. 10, pp. 137-139 (1984)
	10.	Chabay, "Optical Waveguides," <i>Analytical Chemistry</i> , vol. 54, pp. 1071A - 1080A (1982)
	11.	Sutherland et al., "Optical Detection of Antibody-Antigen Reactions at a Glass-Liquid Interface," <i>Clin. Chem.</i> , vol. 30, pp. 1533-1538 (1984)
	12.	Ronald T. Holm and Edward D. Palik, "Internal-reflection spectroscopy," <i>Laser Focus</i> , vol. 15, pp. 60-65 (August 1979)
	13.	N.J. Harrick and George I. Loeb, "Multiple Internal Reflection Fluorescence Spectrometry," <i>Analytical Chemistry</i> , vol. 45, pp. 687-691 (1973)
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	15.	Dakss, et. al., "Grating Coupler for Efficient Excitation of Optical Guided Waves in Thin Films," <i>Applied Physics Letters</i> , vol. 16, pp. 523-525 (1970)
	16.	Sutherland et al., "Immunoassays at a Quartz-Liquid Interface: Theory, Instrumentation and Preliminary Application to the Fluorescent Immunoassay of Human Immunoglobulin G," <i>Journal of Immunological Methods</i> , vol. 74, pp. 253-265 (1984)
	17.	English translation of CH 670 521 A5
NY	18.	English translation of CH 669 050 A5
EXAMINER <i>[Signature]</i>		DATE CONSIDERED 6/13/05

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

Sheet 1 of 1

<b>FORM PTO-1449</b> <b>(Rev. 2-32)</b>	<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>	<b>Atty. Docket No.</b> 00-1123-D	<b>Serial No.</b> 09/930,352
<b>THIRTEENTH SUPPLEMENTAL INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use several sheets if necessary)		<b>Applicant:</b> Cunningham, et al.	
		<b>Filing Date:</b> August 15, 2001	<b>Group:</b> 1641


## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
M	*	4,560,248	12/24/85	Cramp, et al.	350	98.34	12/24/85

## FOREIGN PATENT DOCUMENTS

		Document Number							Date	Country	Class	Subclass	Translation	
													Yes	No
M	1.	2	1	5	6	9	7	0A	18.10.85	GB				

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M	2.	Nellen, et al., "Integrated Optical Input Grating Couplers as Biochemical Sensors", Sensors and Actuators, 15 (1988) 285-295
<b>EXAMINER</b> 		<b>DATE CONSIDERED</b> 7/12/05

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<b>FORM PTO-1449</b> (Rev. 2-32)	<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>	<b>Atty. Docket No.</b> 00-1123-D	<b>Serial No.</b> 09/930,352
		<b>Applicant:</b> Cunningham, et al.	
		<b>Filing Date:</b> August 15, 2001	<b>Group:</b> 1645

**THIRD SUPPLEMENTAL INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**  
(Use several sheets if necessary)

**U.S. PATENT DOCUMENTS**


Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
M	1.	4,009,933	03/01/77	Firester	350	290	05/07/75
M	2.	5,598,300	01/28/97	Magnusson, et al.	359	566	06/05/95

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).**

		3.	Invitation to Pay Additional Fees in foreign counterpart application PCT/US01/50723
<b>EXAMINER</b> <i>Adam Y. J.</i>			<b>DATE CONSIDERED</b> 5/19/05

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FORM PTO-1449 (Rev. 2-32)		U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 01-1123-D	Serial No. 09/930,352
 <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use several sheets if necessary)</p>		<p><b>RECEIVED</b> JUL 21 2003</p>			
		Applicant: Cunningham, et al. <b>TECH CENTER 1600/2900</b>			
		Filing Date: August 15, 2001	Group: 1645		

## U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
M	1.	4,876,208	10/24/89	Gustafson et al.	436	531	1/30/87
I	2.	4,992,385	2/12/91	Godfrey	436	525	7/22/87
I	3.	5,455,178	10/3/95	Fattinger	436	164	5/28/93
I	4.	5,478,527	12/26/95	Gustafson et al.	422	82	11/21/94
M	5.	5,738,825	4/14/98	Rudigier et al.	422	82	5/12/97

## FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

EXAMINER	<i>John Long</i>	DATE CONSIDERED 5/19/05

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<b>FORM PTO-1449</b> (Rev. 2-32)		<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>		<b>Atty. Docket No.</b> 00-1123-D	<b>Serial No.</b> 09/930,352
<b>ELEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use several sheets if necessary)				<b>Applicant:</b> Cunningham, et al.	
				<b>Filing Date:</b> August 15, 2001	
				<b>Group:</b> 1641	



**U.S. PATENT DOCUMENTS**

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
W	*	US 2003/0148542	8-7-03	Pewlak			11-27-02
W	*	US 2002/0171045	11-21-02	Perraut			5-17-02

**FOREIGN PATENT DOCUMENTS**

	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).**

W	1.	Neuschafer et al., Evanescent resonator chips: a universal platform with superior sensitivity for fluorescence-based microarrays. <i>Biosensors &amp; Bioelectronics</i> , 18 (2003) 489-497.				
W	2.	Budach et al., Generation of transducers for fluorescence-based microarrays with enhanced sensitivity and their application for gene expression profiling. <i>Analytical Chemistry</i> , 2003 Jun 1;75(11):2571-7.				
<table border="1"> <tr> <td>EXAMINER</td> <td>DATE CONSIDERED</td> </tr> <tr> <td><i>John J. [Signature]</i></td> <td>5/19/05</td> </tr> </table>			EXAMINER	DATE CONSIDERED	<i>John J. [Signature]</i>	5/19/05
EXAMINER	DATE CONSIDERED					
<i>John J. [Signature]</i>	5/19/05					

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<b>FORM PTO-1449</b> <b>(Rev. 2-32)</b>		<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>		<b>Atty. Docket No.</b> 00-1123-D	<b>Serial No.</b> 09/930,352
<b>SUPPLEMENTAL INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use several sheets if necessary)				<b>Applicant:</b> Cunningham, et al.	
				<b>Filing Date:</b> August 15, 2001	
				<b>Group:</b> 1645	

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation	
					Yes	No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).**

<i>M</i>	1	Hobbs, et al., "Automated Interference Lithography Systems for Generation of Sub-Micron Feature Size Patterns", <i>SPIE</i> , Vol. 3879, pp. 124-135, September 1999
<i>M</i>	2	Cunningham, "Introduction to Bioanalytical Sensors", <i>Techniques in Analytical Chemistry</i> , pp. 260-291
<b>EXAMINER</b> <i>Anderson Y-S</i>		
<b>DATE CONSIDERED</b> <i>5/19/05</i>		

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<b>FORM PTO-1449</b> <b>(Rev. 2-32)</b>  <b>TWELFTH SUPPLEMENTAL INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use several sheets if necessary)	<b>U.S. Department of Commerce</b> <b>Patent and Trademark Office</b>		<b>Atty. Docket No.</b> 00-1123-D	<b>Serial No.</b> 09/930,352
	<b>Applicant:</b> Cunningham, et al.			
	<b>Filing Date:</b> August 15, 2001	<b>Group:</b> 1641		

**U.S. PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation	
					Yes	No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

1	U.S. Serial No. 09/829,957, filed August 15, 2001; Publication No. US 2002-0168295
2	U.S. Serial No. 09/930,352, filed August 15, 2001; Publication No. US2002-0127565
3	U.S. Serial No. 10/415,037 filed October 23, 2001; Publication No. US2004-0132172
4	U.S. Serial No. 10/399,940, filed October 23, 2001; Publication No. US2004-0151626
5	U.S. Serial No. 10/059,060, filed January 28, 2002; Publication No. US2003-0027328
6	U.S. Serial No. 10/201,818, filed July 23, 2002; Publication No. US2003-0017681
7	U.S. Serial No. 10/237,641, filed September 9, 2002; Publication No. US2003-0068657
8	U.S. Serial No. 10/277,908, filed August 28, 2002; Publication No. US2003-0113766
9	U.S. Serial No. 10/233,730, filed September 3, 2002; Publication No. US2003-0092075
10	U.S. Serial No. 10/180,374, filed June 26, 2002; Publication No. US2003-0059855

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11.	U.S. Serial No. 10/180,647, filed June 26, 2002; Publication No. US2003-0032039
12.	U.S. Serial No. 10/253,848, filed September 25, 2002; Publication No. US2003-0077680
13.	U.S. Serial No. 10/198,058, filed July 15, 2002; Publication No. US2003-0017580
14.	U.S. Serial No. 10/667,696, filed September 22, 2003; Publication No. US2004-0132214
15.	U.S. Serial No. 10/058,626, filed January 28, 2002; Publication No. US2003-0027327
16.	U.S. Serial No. 10/201,878, filed July 23, 2002; Publication No. US2003-0028891

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